

9800014

THE UNIVERSE STATES OF ANTERICAL

TO) AVECTO) WHOM: THESE: PRESENTS: SHAVE; COME:

Sakata Seed Corporation

MICECUS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC EPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR TING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ZINNIA

'Profusion Cherry'

In Testinoun Auxent. I have hereunto set my hand and caused the seal of the Plant Institute Arstection Office to be affixed at the City of Washington, D.C. this fourteenth day of April, in the year of our Lord two thousand.

Atlast:

Am marie &

Commissioner
Plant Variety Protection Office
Assimplywal Manhatina Service

Jan William Lary of Agriculture

| | | The following statements are me 1974 (5 U.S.C. 552a) and the Pa | nde in accordance with the Privacy Act perwork Reduction Act IPRA) of 1995. | | |
|--|---|--|--|--|--|
| APPLICATION FOR PLANT VARIETY PROTECTION | SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE | | Application is required in order to determine if a plant variety protect | | |
| Unstructions and information collection burden to the collection CERTIFICATE | | until certificate is to be issued (7 U.S.) | C. 2421). Information is held confiden | | |
| (Instructions and information collection burden statement on reverse) 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) | | | . 2420/, | | |
| The state of the Contest of the Continue Continu | | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER | 3. VARIETY NAME | | |
| Sakata Seed Corporation | | 1 | Profusion | | |
| | | Profusion | | | |
| | | Rose | Cherry | | |
| | | • | Janes 1 y | | |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Cou | untry) | E TELEPHONE COLL | | | |
| | | 6. TELEPHONE (include area code) | FOR OFFICIAL USE ONLY | | |
| 2-7-1 Nakamachidai | | (408) 778-7758 | PVPO NUMBER | | |
| Tsuzuki-Ku, Yokohama | | | 9800014 | | |
| Japan 224 | | | | | |
| | | 6. FAX (include area code) | DATE | | |
| • | | (408) 778–1030 | 10/22/97 | | |
| | | (+00) //0 1030 | 10/00/9/ | | |
| GENUS AND SPECIES NAME | | | G | | |
| Zinnia hybrida | B. FAMILY NAME (Bota | nical) | FILING AND EXAMINATION FEE: | | |
| Zinnia nybrida Zinnia interspecific | Composites | | 1: 2450.00 | | |
| • | Compositae | | | | |
| CROP KIND NAME (Common name) | | 710 | S DATE | | |
| Zinnia | | | 1.1 10/22/97 | | |
| | | | R t-/CG// | | |
| . IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZA | ATION (corporation, partners | hip, association, etc.) (Common name) | C CERTIFICATION FEE: | | |
| Corporation | | ,, , | 1: 300.00 | | |
| . IF INCORPORATED, GIVE STATE OF INCORPORATION | | 12 DATE OF WOODS | -[v] | | |
| | | 12. DATE OF INCORPORATION | B DATE 3/3/2000 | | |
| Yokohama, Japan | • | 1942 Dec 12 | 11 | | |
| NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SER | EVE IN THIS APPLICATION | AND PECEINE ALL PARSON | | | |
| Thomas Day | THE SECTION | AND RECEIVE ALL PAPERS | 14. TELEPHONE (include area code) | | |
| | | | · · | | |
| Gary Whiteaker | | | | | |
| Sakata Seed America, Inc. | | | 15. FAX (include area code) | | |
| 18095 Serene Drive | | , | 1 | | |
| Morgan Hill, CA 95037 U.S.A. | | | 1 | | |
| CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow in | | | | | |
| a. Exhibit A. Origin and Breeding History of the Variety | nsauctions on reverse) | · | | | |
| | | | | | |
| b. Exhibit B. Statement of Distinctness | $(1, \dots, n) = (1, \dots, n)$ | | | | |
| c. Exhibit C. Objective Description of the Variety | 4 | | . 4 | | |
| d. Exhibit D. Additional Description of the Variety (Optional) | | | | | |
| e. | | | | | |
| | d veriation | F | | | |
| f. Voucher Sample (2,600 viable untreated seeds or, for tuber propagated | u varieuss ventication that t | issue culture will be deposited and maintaine | ed in an approved public repository) | | |
| g. Filing and Examination Fee (\$2,450), made payable to "Tressurer of the | | | | | |
| DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY | VARIETY NAME ONLY, AS | A CLASS OF CERTIFIED SEED? ISee Section | n 83(a) of the Plant Variety Protection Arti | | |
| YES (If "yes," enswer items 18 and 19 below) | NO (If "no," go | to item 20) | | | |
| DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED A | | | 05.00001071011.0071011 | | |
| GENERATIONS? | 10 HOMBER OF 18. | TES TO ITEM IB, WHICH CLASSES | OF PRODUCTION BEYOND BREEDER SEED? | | |
| YES ONO | | FOUNDATION REGISTERE | D CERTIFIED | | |
| HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELE | EASED, USED, OFFERED FC | R SALE, OR MARKETED IN THE U.S. OR O. | THER COUNTRIES? | | |
| YES (If "yes," give names of countries and dates) | LNO May 1, | | JA | | |
| | ر بر را ال | - · • • | વીંગ | | |
| | | | -1 | | |
| The applicant(s) declare that a viable sample of basic seed of the variety will be applicable, or for a tuber propagated variety a tissue culture will be | furnished with application a | nd will be reptenished upon request in scoor | dance with such regulations as may be | | |
| applicable, or for a tuber propagated variety a tissue culture will be deposited in | a public repository and mai | ntained for the duration of the certificate. | | | |
| The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or t | tisher propagated place variet | has something the transfer of the second | seines suifiem as disasti. | | |
| ection 42, and is entitled to protection under the provisions of Section 42 of the | e Plant Variety Protection A | st, and benevolal trial the variety is new, di | sunce, uniform, and stable as required in | | |
| | | | • | | |
| Applicantial information of the first services | ction and result in penalties. | | | | |
| | SIGNATUE | RE OF APPLICANT (Owner(s)) | | | |
| | 1 | | · · | | |
| | | | | | |
| ATURE OF APPLICANT (Owner(s)) | | | | | |
| Applicant(s) is(are) informed that false representation herein can jeopardize prote ATURE OF APPLICANT (Owner(s)) (Please print or type) | | ase print or type) | | | |
| ATURE OF APPLICANT (Owner(s)) E (Please print or type) | | ese print or type) | · · · · · · · · · · · · · · · · · · · | | |
| Thomas Day | NAME (Ple | | | | |
| ATURE OF APPLICANT (Owner(s)) E (Please print or type) | NAME (Pre | ase print or type) OR TITLE | DATE | | |

Sakata Seed America Zinnia 'Profusion Cherry' PVP Application Number: <u>9800014</u>

Exhibit A, October 3, 1997 (THD) revised September 23, 1999 (THD)

In 1986, 19 strains of diploid interspecific crosses between Zinnia angustifolia and Zinnia elegans were received from Dr. Dennis P. Stimart at the University of Maryland. The interspecific hybrids 822-133C and 8411-7C were intercrossed (female and male, respectively) to produce F₁ seed. Line 822-133C was a cross between a *Zinnia* angustifolia line known only as White and *Zinnia elegans* variety 'Purity'. Line 8411-7C was a cross between a *Zinnia angustifolia* line known only as Orange and *Zinnia elegans* variety 'Thumbelina Mini-Salmon'.

In 1987 the F_1 seed was sown and three plants were selected and intercrossed for production of F_2 seed.

In 1988 the F_2 seed was sown, producing plants with flowers of several colors and shades. Two plants with compact plant habit, carmine-rose colored flower and prolific blooming were selected and intercrossed to produce F_3 seed.

During 1989 through 1994, successive generations were sown with selection and selfing of individual plants to fix and stabilize traits.

In 1995, seed of the F_9 selections was sown and one stable line with compact habit and prolific blooming was selected. F_{10} seed was made from this line by open pollination.

During 1995 and 1996, the F_{10} line, now named 'Profusion Cherry', was sown and the resulting plants observed for trait stability. 'Profusion Cherry' was observed to be uniform and stable in the both F_9 and F_{10} generations. Additionally it was determined that the new variety lacks genetic variants.

Sakata Seed America Zinnia 'Profusion Cherry' PVP Application Number: <u>9800014</u>

Exhibit B, October 3, 1997 (THD) revised September 23, 1999 (THD)

To the best of our knowledge, 'Profusion Cherry' most clearly resembles 'Pinwheel Rose'. However, 'Profusion Cherry' differs from 'Pinwheel Rose' in at least one characteristic. 'Profusion Cherry' has a dwarfed plant habit and produces its first flower at a height of about 20.5 centimeters while 'Pinwheel Rose' produces its first flower at a height of about 32 centimeters. The accompanying Exhibit D shows data from two trials conducted in Salinas, California. In both trials the difference in height to top of first flower was statistically significant at the 95% confidence level. Plots showing Rankit values (Bliss, 1967) versus the data support the assumption that the data is approximately normally distributed.

Attached are photos of the new variety and the comparison variety showing their significant difference in height of first flower. These photos were taken from two different trials done in Salinas, California during the 1999 summer. The plants were grown in four-inch pots.

Exhibit B, Photographs
Note significant difference in height of first flower.



'Profusion Cherry' (left) and 'Pinwheel Rose' (right)



'Pinwheel Rose' (left) and 'Profusion Cherry' (right)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Zinnia)

| INSTRUCTIONS: See Reverse. ZINNIA (ZINNIA SPP.) | |
|--|--|
| NAME OF APPLICANT(S) | FOR OFFICIAL USE ONLY |
| Sakata Seed Corporation | P VPO NUMBER |
| ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) | 9800014 |
| 2-7-1 Nakamachidai Tsuzuki-Ku, Yokohama | VARIETY NAME OR TEMPORARY DESIGNATION |
| Japan 224 | Profusion Rose 9/2 |
| Place the appropriate number that describes the varietal character of this variety in the Place a zero in first box (e.g. 089 or 09) when number is either 99 or less of | e boxes below. |
| 1. SPECIES: | |
| 1 = ELEGANS 2 = LINEARIS 3 = HAGGEANA (angustifolia) 4 = | SPECIES CROSS Z. angustifolia |
| 2. PLOIDY: | x Z. elegans |
| 1 = DIPLOID (24) 2 = TETRAPLOID (48) 3 = OTHER (Specify) | |
| 3. FLOWER TYPE: | |
| 1 = BUTTON (Cherry Buttons, Thumbelina) 2 = POMPON (Scarlet Gem, White Go 4 = CRESTED, SCABIOSA (Wind Witch) 5 = CACTUS (Blaze, Sunny Boy) | em) 3 = DAHLIA (Dream, Exquisite) 6 = MEXICAN (Old Mexico) |
| 4. PLANT: DAYS FROM EMERGENCE TO FIRST FLOWER Season: 1 = SHORT, CONCENTRATED FLOWERING | 2 = LONG, CONTINUOUS FLOWERING |
| 12 NO. OF PRIMARY BRANCHES Main Stalk: | NO. OF TERTIARY BRANCHES |
| NO. OF INTERNODES CM. LENGTH OF INTERNODE BETWEEN FIRST & SECOND NODES | MM. DIAMETER BETWEEN FIRST |
| Habit: 1 = COMPACT 2 Habit: CM, WIDE | 20 Habit: CM, HIGH |
| | BESCENT |
| 5. LEAF: | |
| 1 Shape: 1 = LANCEOLATE 2 = OVATE 3 = ELLIPTIC 25 MM. WIDE | 55 MM, LONG |
| 2 Dorsal Surface: 1 = GLABROUS 2 = PUBESCENT 1 Ventral Surface: | 1 = GLABROUS 2 = PUBESCENT |
| 6. FLOWERS: | 6.0 JM |
| N A CM. LENGTH OF CUT FLOWER AVERAGE NO. PER PLANT | CM. DIAMETER OF HEAD |
| 2 Stems: 1 = RIGID 2 = FLEXIBLE 2 Stems: 1 = BRITTLE 2 = WIRE | Y |
| Doubleness: 1 = SINGLE (one row of rays) 2 = SEMI-SINGLE 3 = SEMI-DOUBLE (many rows of rays) 4 = DOUBLE (all ra) | |
| 7. RAY PETALS: | |
| 1 = FLAT 2 = TWISTED 3 = CURLED 4 = SHAGGY 5 = QUILI 6 = COMBINATION OR OTHER (Specify) | LED |
| Dorsal Surface: 1 = GLABROUS 2 = PUBESCENT Ventral Surface: Ventral Surface: | 1 = DULL 2 = SHINY |
| Ventral Surface: | , |
| APICES: | |
| 2 1 = ACUTE 2 = OBTUSE 2 1 = ENTIRE 2 = NOTCHED 3 | = SPINED |

| | | | Profusion Cher | ry 980 | 00014 |
|---------------------------------|--|-----------------------|--|--------------------------------|---------------------------------------|
| 8. COLOR OF RAYS: (Colo | rs listed below apply to Monocolo RHS 53B | r and Color Pat | terns.) | j | |
| <u></u> | | 04-110 | | | • |
| | APEX BASE | (| BACK- GROUND STREAKS | STRIF | PES |
| Ventral Side:) Dorsal Side:) | | [0]] | COLOR | | |
| Ventral Side: | SPOTS BLOTCHE | | THER (Specify) Veins | | |
| 01 = WHITE 02 = 0 | PREAM OR MINIS | וחדהו | RHS 143C | | * . |
| 01 = WHITE | | = ROSE 0 12 = SCAS | 5 = RED 06 = ORANGE RLET 13 = SALMON 1 | 07 = GOLD 0 4 = OTHER (Spec | 8 = BRONZE |
| | | | | | ÷. |
| 9. DISK FLORETS: | | | | | |
| 3 1 = ABSENT 2 | PRESENT, PRESENT COVERED 3 CONSPIC | • | 2 1 = NOT QUI | LLED 2 = Q | NIFFED |
| O9 Color: (Choose fi | rom colors in No. 9 above) | RHS 21 | C Samuel Control | | |
| 10. ANTHOCYANIN: (1 = / | Absent, 2 = Present) | | | and the second second | <u> </u> |
| SEEDLINGS 2 | STEMS LEAVES | 1 FLO | WERS | | |
| 11. SEEDS: | | | The state of the s | | |
| Yield: 1 = NONE | 2 = POOR 3 = FAIR | 4 = GOOD | 5 MM. | 2 MM. WIDE | • • |
| Color: 1 = TAN | and the second s | DARK BROW | N 300 MG. PE | R 100 SEEDS | |
| 12. DRIED RECEPTACLE (Af | ter seed removal): | 1. 1. | A. A | | |
| Shape: 1 = FLAT | 2 = DOME 3 = GLOBE | 4 = CONE | 10 MM LENGTH | 6 - CM. DIAME | TER AT BASE |
| 13. DISEASE: (0 = Not Teste | d, 1 = Susceptible, 2 = Resiste | int) | | | 1 . |
| O MILDEW O N | OSAIC FUSARIUM | | ERNARIA F SPOT | | |
| 14. INDICATE VARIETIES MO | ST CLOSELY RESEMBLING TH | IAT SUBMITT | ED: | | |
| CHARACTER | NAME OF VARIE | | CHARACTER | NAME OF V | ARIETY |
| Flower size | A CONTRACTOR OF THE CONTRACTOR | 5 | Plant size | was a second | 501 |
| Flower type | | ٤ | Foliage size | | |
| Flower color | 2.0 | | Maturity | | · · · · · · · · · · · · · · · · · · · |
| Plant Habit | La company of | - 4 | | | <u> 10</u> 19 |
| . Bodger Seed Company , L | REFE TD. The Zinnia and Its Uses. | RENCES: Bul. No. 1 | 19 pp. 1935. | 3 | |
| . Honeywell, E. R., 1970. 7 | he Zinnia. Purdue University | v Ext Service | HO-104. | im <i>u</i> , | |
| . Metcalf, H. N. and J. N. Sl | arma. Germplasm Resources | of the Genu | s Zinnia L. Econ. Bot. 25:169 | | |
| . Weddle, Charles. The Eleg | ant Zinnia. Nat. Hort. Mag. 2 | 24(2): 83-91 | . 1945. | | • |
| OMMENTS: | zeu color ian should be used | to determine | the plant colors of the descri | bed variéty. | |

PVP Application:
Sakata Seed America Zinnia 'Profusion Rose' Cherry Exhibit D

Height to top of first flower (cm.)

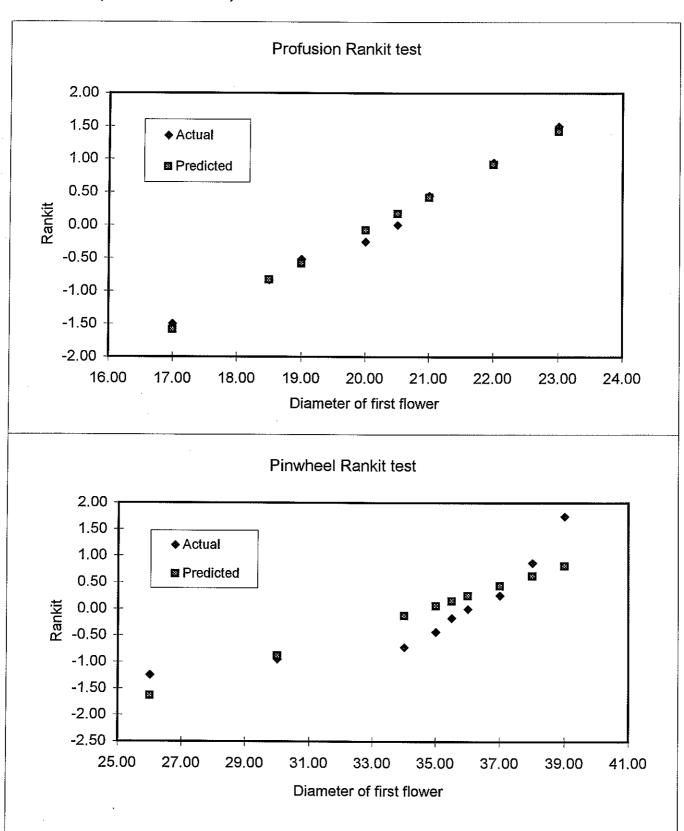
Location 1, inside greenhouse

Location 2, outdoors

| | | - | | | |
|-----------|------------------|----------|-------|----------------------|----------|
| | <u>Profusion</u> | Pinwheel | 4 | Profusion | Pinwheel |
| | 17.00 | 34.00 | | 19.00 | 26.50 |
| | 18.50 | 38.00 | | 21.50 | 28.00 |
| | 21.00 | 35.00 | | 17.75 | 24.75 |
| | 20.00 | 35.00 | | 19.50 | 28.50 |
| | 19.00 | 39.00 | | 21.50 | 31.75 |
| | 17.00 | 38.00 | | 24.75 | 28.00 |
| | 21.00 | 38.00 | | 14.00 | 31.75 |
| | 18.50 | 37.00 | | 20.50 | 32.50 |
| | 21.00 | 30.00 | | 21.50 | 31.50 |
| | 22.00 | 35.50 | | 22.00 | 28.50 |
| | 23.00 | 37.00 | | 21.50 | 31.75 |
| | 20.00 | 38.00 | | 23.00 | 33.00 |
| • | 20.50 | 26.00 | | 19.75 | 30.00 |
| | 21.00 | 36.00 | | 20.50 | 29.75 |
| | 23.00 | 24.00 | | 24.50 | 30.50 |
| | | | | | |
| Mean | 20.17 | 34.70 | Mea | n /20.75 | 29.78 |
| Std. Dev. | 1.88 | 4.53 | Std. | Dev. 2.66 | 2.37 |
| | | | | | |
| | • | | • | | |
| t-test | 6.852E-10 | (P<0.05) | t-tes | t 1.665E - 10 | (P<0.05) |
| | | | | | |

PVP Application:

5,US 9/27/98 Sakata Seed America
Zinnia 'Profusion Rose' Cherry
Exhibit D (Location 1 data)



FORM APPROVED: OMB NO. 40-R3822

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C (Zinnia)

OBJECTIVE DESCRIPTION OF VARIETY

| INSTRUCTIONS: See Reverse. | ZINNIA (ZINNIA SPP.) | |
|--|--|--|
| NAME OF APPLICANTIS | | FOR OFFICIAL USE ONLY |
| Sakata Seed Corporation | | PVPO NUMBER |
| ADDRESS (Street and No. or R.F.D. No., City, State, a | nd ZIP Code) | 9800014 |
| 2-7-1 Nakamachidai | | VARIETY NAME OR TEMPORARY |
| Tsuzuki-Ku, Yokohama | | DESIGNATION |
| Japan 224 | and the figure of the second o | Pinwheel Rose |
| Place the appropriate number that describes the selection of the selection | varietal character of this variety in the | e boxes below. |
| 1. SPECIES: | | 9 |
| 1 = ELEGANS 2 = LINEARIS 3 | = HAGGEANA (angustifolia) 4 = | species cross Z. hybrida |
| 2, PLOIDY: | | |
| 1 = DIPLOID (24) 2 = TETRAPLOID (48) | 3 = OTHER (Specify) | |
| 3. FLOWER TYPE: | | |
| 1 = BUTTON (Cherry Buttons, Thumbelina) | | |
| 1/4 1 | 2 = POMPON (Scarlet Gem, White Gel | |
| 4 = CRESTED , SCABIOSA (Wind Witch) | 5 = CACTUS (Blaze, Sunny Boy) | 6 = MEXICAN (Old Mexico) |
| 4. PLANT: 7 D DAYS FROM EMERGENCE TO 2 S | eason: 1 = SHORT, CONCENTRATED FLOWERING | 2 = LONG, CONTINUOUS FLOWERING |
| | 7 | - THE TOTAL CONTRACTOR OF THE PROPERTY OF THE |
| 1 4 NO. OF PRIMARY BRANCHES 5 G | NO. OF SECONDARY BRANCHES | NO. OF TERTIARY BRANCHES |
| Main Stalk: | | |
| O 7 NO. OF INTERNODES | CM. LENGTH OF INTERNODE BE- TWEEN FIRST & SECOND NODES | MM. DIAMETER BETWEEN FIRST |
| Habit: 1 = COMPACT 24 | Habit: CM. WIDE | 33 Habit: CM, HIGH |
| - 1 - 01 ADDOUR | | |
| 3 1 = GLABROUS 2 = SPARSE | LY PUBESCENT 3 = PUE | BESCENT |
| 5. LEAF: | : | |
| Shape: 1 = LANCEOLATE 2 = OVATE 3 | = ELLIPTIC 40 MM, WIDE | BO MM. LONG |
| Dorsal Surface: 1 = GLABROUS 2 = PL | JBESCENT 2 Ventral Surface: | 1 = GLABROUS 2 = PUBESCENT |
| 6. FLOWERS: | | 7.0 Jus |
| N A CM. LENGTH OF CUT FLOWER (from head to first branch) | AVERAGE NO. PER PLANT | 7.0 JAS 20 CM. DIAMETER OF HEAD 1/11/2000 |
| 2 Stems: 1 = RIGID 2 = FLEXIBLE 2 | Stems: 1 = BRITTLE 2 = WIREY | |
| Doubleness: 1 = SINGLE (one row of rays) 3 = SEMI-DOUBLE (many row | <u> </u> | And the second of the second o |
| 7. RAY PETALS: | | |
| 1 = FLAT 2 = TWISTED 3 = CURI 6 = COMBINATION OR OTHER (Specify) | ED 4 = SHAGGY 15 = QUILL | ED |
| Dorsal Surface: | T Possel Sunfa | |
| | Dorsal Surface: | |
| 1 = GLABROUS 2 = 1 | PUBESCENT | 1 = DULL 2 = SHINY |
| | Ventral Surface: | 1 |
| APICES: | *************************************** | |
| 2 1 = ACUTE 2 = OBTUSE 2 | 1 = ENTIRE 2 = NOTCHED 3 | ≖ SPINED |

| 9 COLOR OF PAYO. (O-1- | No. of the second secon | | rinwheel has | e e e e e e e e e e e e e e e e e e e |
|-------------------------------|--|---------------------------------------|---|---------------------------------------|
| 1 1 1 | s listed below apply to Monocolor and | Color Patterns.) | No. | , |
| MONOCOLOR | RHS 54B | | | • |
| Color Patterns for Bicolor o | r Multicolor: | CHS 71 0 | <u> </u> | |
| Dorsal Side: | | 1 2 BACK- | | |
| | APEX BASE HALF | GROUN COLOR | STREAKS | STRIPES |
| Dorsal Side: | | | | |
| Ventral Side: ∫ S | BLOTCHES | OTHER | (Specify) | |
| 01 = WHITE 02 = C | REAM 03 = PINK 04 = R | OSE 05 = RE | D 06 = ORANGE | 07 = GOLD 08 = BRONZE |
| 09 = YELLOW 10 = G | | | | 4 = OTHER (Specify) |
| | and the second s | | . . | |
| 9. DISK FLORETS: | | · · · · · · · · · · · · · · · · · · · | <u> </u> | |
| 3 1 = ABSENT 2 | PRESENT, PRESENT, COVERED 3 = CONSPICUOL | Js | 2 1 = NOT QUI | LLED 2 = QUILLED |
| | A. | | *************************************** | garage and second |
| Color: (Choose fr | om colors in No. 9 above) KH | 5 21 4 | <i>r</i> | er uner er et |
| 10. ANTHOCYANIN: (1 = A | Absent, 2 = Present) | | · · · · · · · · · · · · · · · · · · · | |
| SEEDLINGS 2 | STEMS 1 LEAVES | FLOWERS | With the second | And the second second |
| 11. SEEDS: | | | | |
| Yield: 1 = NONE | 2 = POOR 3 = FAIR 4 | = GOOD | 5 MM. | 3 MM. WIDE |
| 3 Color: 1 = TAN | 2 = LIGHT BROWN 3 = DAF | RK BROWN | 260 MG. PE | ER 100 SEEDS |
| 12. DRIED RECEPTACLE (Aft | er seed removal): | | m t | |
| Shape: 1 = FLAT | 2 = DOME 3 = GLOBE 4 | = CONE | 6 CM, LENGTH | 7 -CM. DIAMETER AT BASE |
| 13. DISEASE: (0 = Not Tester | d, 1 = Susceptible, 2 = Resistant) | | | |
| POWDERY | OSAIC FUSARIUM WILT | ALTERNAR LEAF SPOT | | |
| 14. INDICATE VARIETIES MOS | ST CLOSELY RESEMBLING THAT S | SUBMITTED: | | |
| CHARACTER | NAME OF VARIETY | | CHARACTER | NAME OF VARIETY |
| Flower size | | - 75 | ant size | |
| Flower type | <u> </u> | Fo | liage size | |
| Flower color | | Ma | turity | |
| Plant Habit | | | , ** ** | 11 11 |
| 1 Padam Saul C | REFEREN | | | |
| 1. Douger Seed Company, L. | FD. The Zinnia and Its Uses. Bul | I. No. 1 19 pp. | 1935. | 10:00 ZZ 100 ZS |
| 2. Honeywell, E. K., 19/0. T | he Zinnia. Purdue University Ex | t Service HO-10 | 4. | |
| J. Metcan, H. N. and J. N. Sh | arma. Germplasm Resources of t | the Genus Zinni | L. Econ. Bot. 25:169 | 9-181. l971. |
| 5. Nickerson's or any recom- | ant Zinnia. Nat. Hort. Mag. 24(2 |): 83-91, 1945 | . 1 6.1 1 1 | OśAd-Gradavich |
| COMMENTS: | zed color fan should be used to d | etermine the pla | nt colors of the descri | bed variety. |

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| AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE 1974 (5 U.S.C. 552a) and | | perwork Reduction Act (PRA) of 1995 . | |
| EXHIBIT E | | | |
| STATEMENT OF THE BASIS OF OWNERSHIP | Application is required in order to determine if a certificate is to be issued (7 U.S.C. 2421). Information | | |
| THE BASIS OF OWNERSHIP | until certificate is issued (7 U.S.C. | 2426). | |
| 1. NAME OF APPLICANT(S) | 2. TEMPORARY DESIGNATION | 3. VARIETY NAME | |
| | OR EXPERIMENTAL NUMBER | 1 | |
| Sakata Seed Corporation | 1 | Profusion Cherry 9 | |
| | Profusion | 04 | |
| | Rose | cherry gr | |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) | E TELEPHONE | 3 17 | |
| 2-7-1 Nakamachidai | 5. TELEPHONE (include area code) | 6. FAX (include area code) | |
| Tsuzuki-Ku, Yokohama | (408) 778-7758 | (408) 778–1030 | |
| Japan 224 | 7. PVPO NUMBER | | |
| Japan 224 | C.C. C. | ~ · | |
| O December 1 | 9860(| 114 | |
| 8. Does the applicant own all rights to the variety? Mark an "X" in appropriate | block. If no, please explain. | F-1 | |
| | | X YES NO | |
| | | | |
| | | | |
| | | | |
| | ··· | • | |
| | | | |
| | | | |
| 9. Is the applicant (individual or company) a U.S. national or U.S. based compan | v? | | |
| If no, give name of country Japan | | YES X NO | |
| 10. In the applicant the ariginal III and a | | | |
| 10. Is the applicant the original breeder? If no, please answer the following: | | W VEG | |
| a. If original rights to variety were owned by individual(s): | : | X YES NO | |
| Is (are) the original breeder(s) a U.S. national(s)? If no, give name of a | | | |
| and any and any and any and any any and any | country | | |
| | | | |
| | | • | |
| | 1 | YES NO | |
| b. If original rights to variety were owned by a company: | Į | YES NO | |
| is the original breeder(s) U.S. based company? If no, give name of co | untry | | |
| | | | |
| 11. Additional explantion on ownership (If needed, use reverse for extra space): | | | |
| | | | |
| The breeders are employees of Sakata Seed | l Corporation. By agre | eement | |
| between the employees and Sakata, all rig | ghts to any invention | are | |
| assigned to Sakata Seed Corporation. | | | |
| PLEASE NOTE: | | | |
| | | | |
| lant variety protection can be afforded only to owners (not licensees) who meet o | one of the following criteria: | | |
| . If the rights to the variety are owned by the original based on the | | | |
| . If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sar | be a U.S. national, national of a U me genus and species. | JPOV member country, or national | |
| | | | |
| . If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by period by the company which employed the original of a UPOV member country, or owned by period by the company which employed the original of the company which employed the | inal breeder(s), the company must | be U.S. based, owned by | |
| nationals of a UPOV member country, or owned by nationals of a country which genus and species. | affords similar protection to natio | onals of the U.S. for the same | |
| | | | |
| . If the applicant is an owner who is not the original breeder, both the original bre | seder and the applicantt | and of the alternative | |
| | | | |
| he original breeder may be the individual or company who directed final breed | ing. See Section 41(a)(2) of the | Plant Variety Protection Act for | |
| efinition. | 5. The section of the test of the | min Amort Lintechall Wel Int | |
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